

NRA porosity -  $C_xEO_{10}$  series

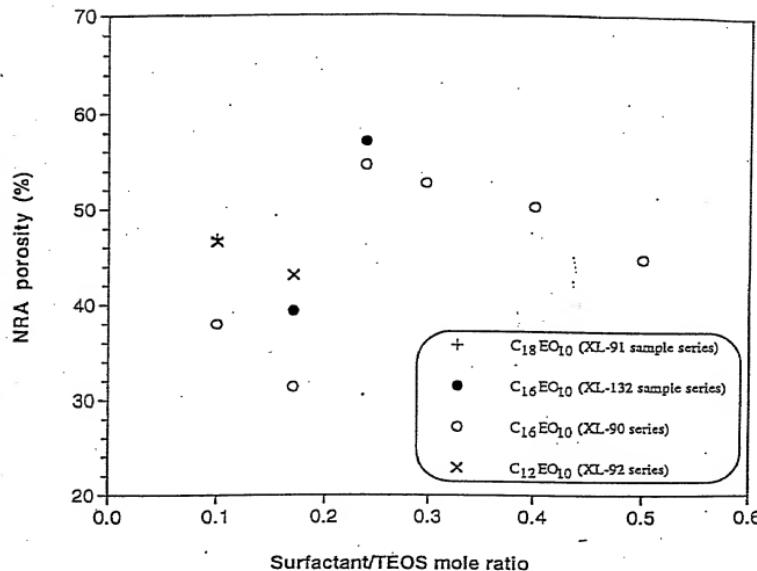


FIG. 1

$C_{12}EO_{10}$  based Films  
Surfactant/TEOS mole ratio = 0.17

Effect of Dehydroxylation Treatments on  $k'$

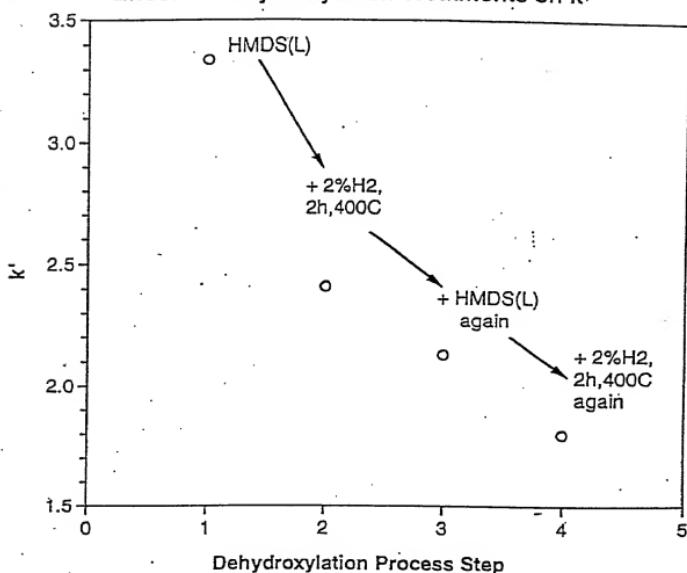


FIG. 2

C<sub>16</sub>EO<sub>10</sub> based Films  
Surfactant/TEOS mole ratio = 0.3

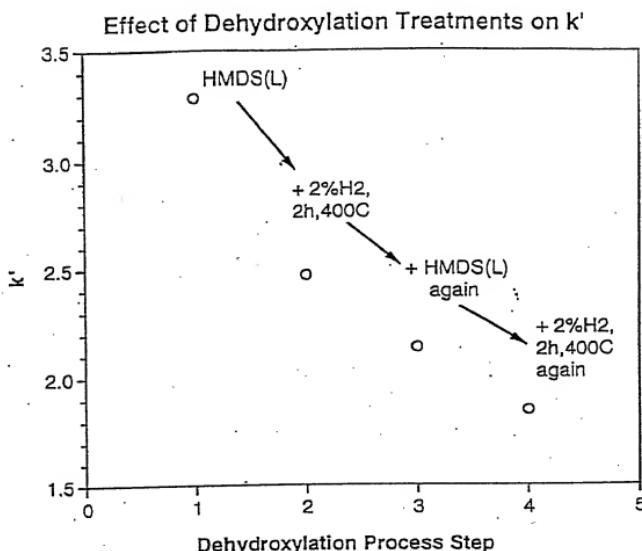


FIG. 3

<C905060 RD> 1442

TO3010 = 0.010

Center Spot - Beam ALONG Radius

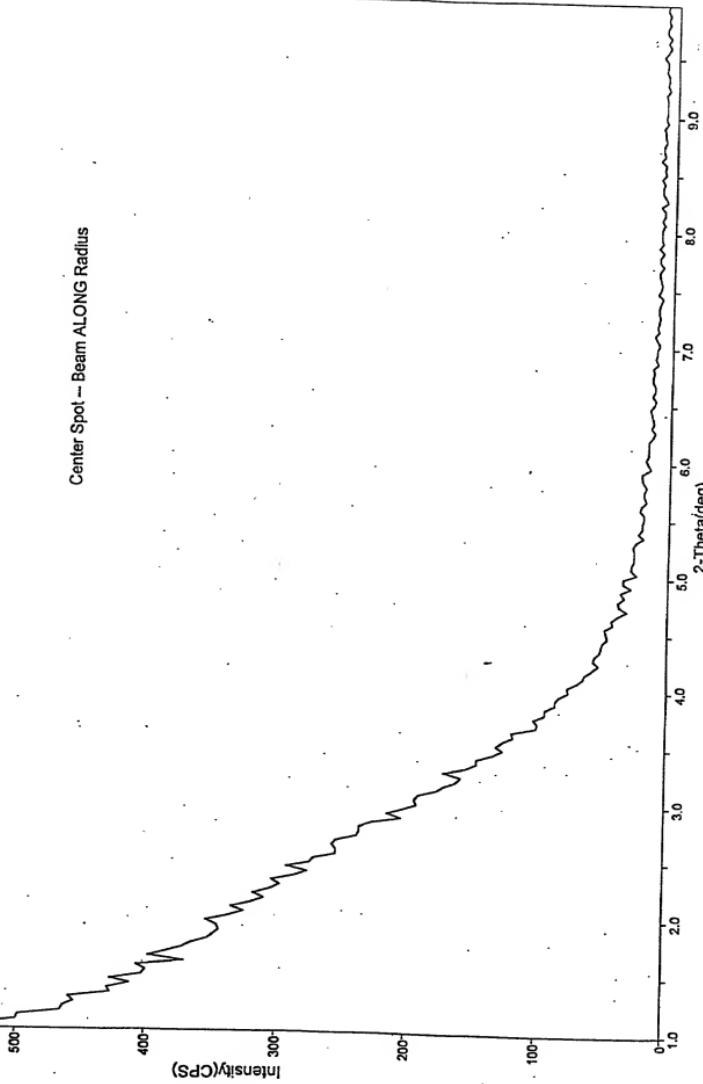


FIG. 4a

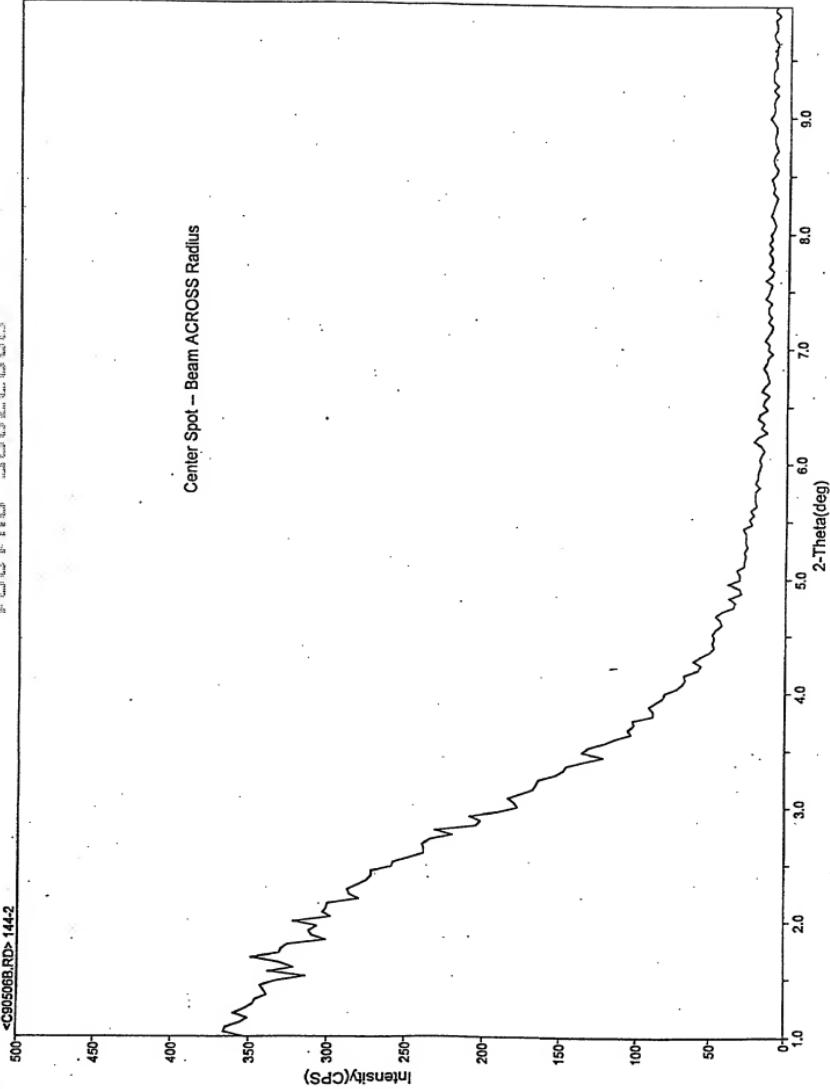


FIG. 4b

**TEM micrograph showing ultrafine pores and a disordered pore structure in surfactant-templated mesoporous silica film**

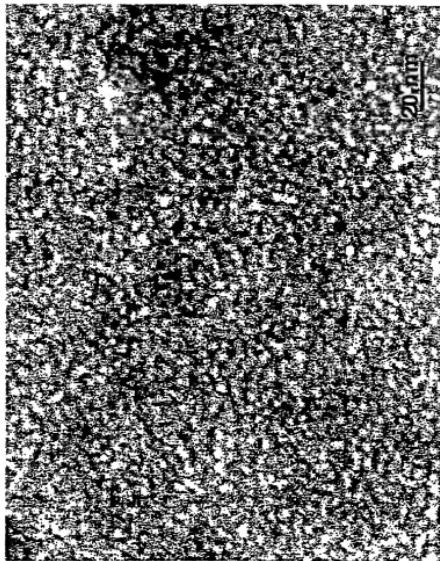


FIG. 5

TESTING=5887886

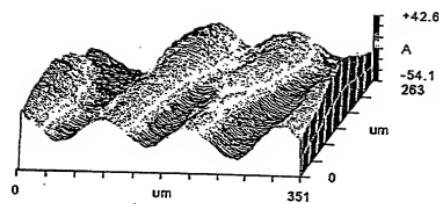


FIG. 6a

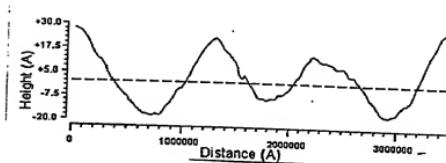


FIG. 6b

Modulus between 14 and 17 GPa  
obtained for 50-300 microNewton loads

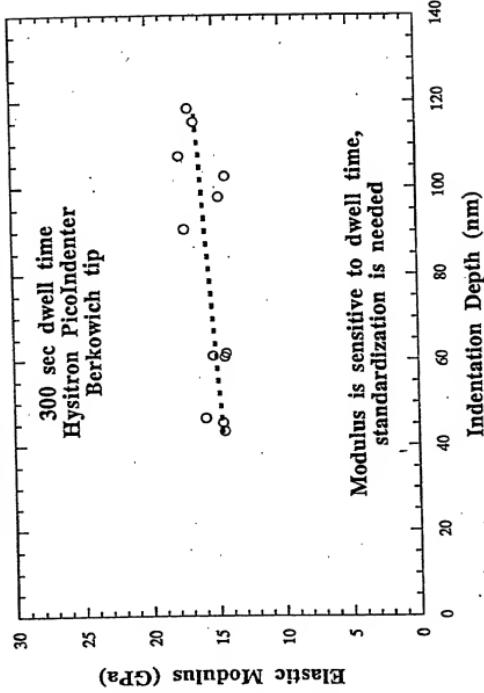


Fig. 7

Y084288ZC860

[690628L.dif] 144-3 ID

7500

5000

2500

0

Intensity(Counts)

2-Theta(°)

FIG. 8a

TO8884E8600

[e0020e, dfl 144-3 ID

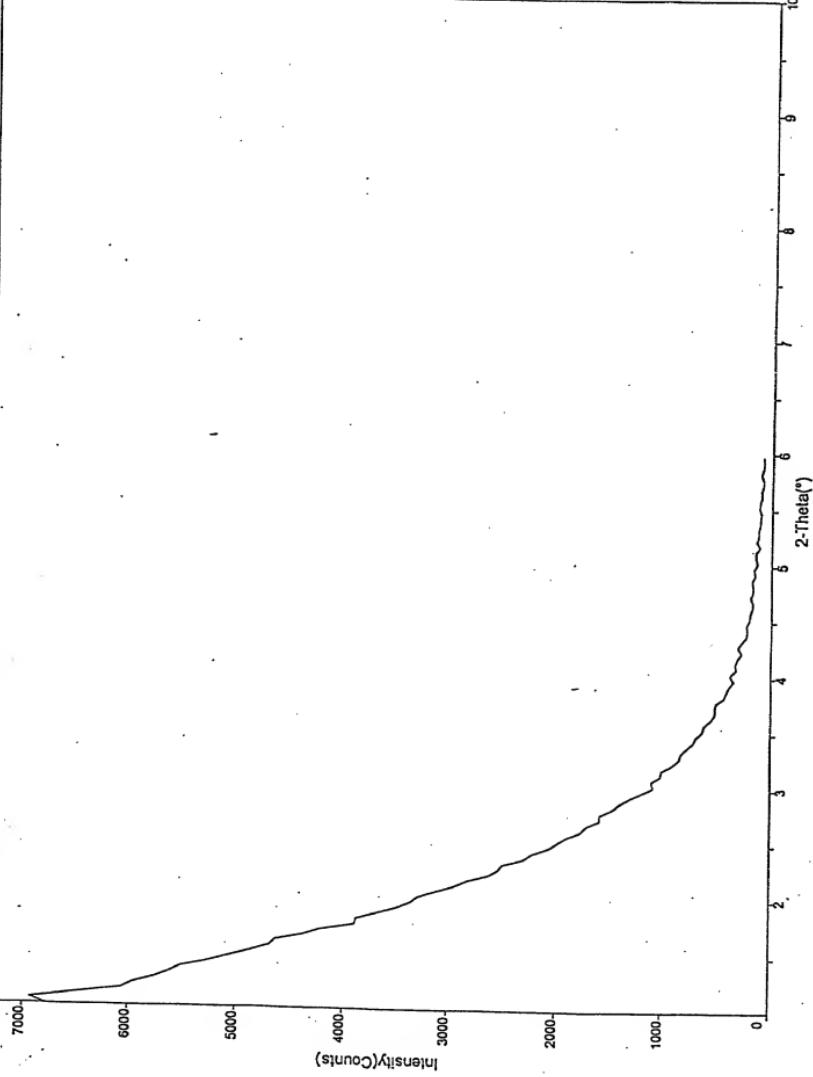


FIG. 8b

TOF5887890

le00626b.mif CC22C

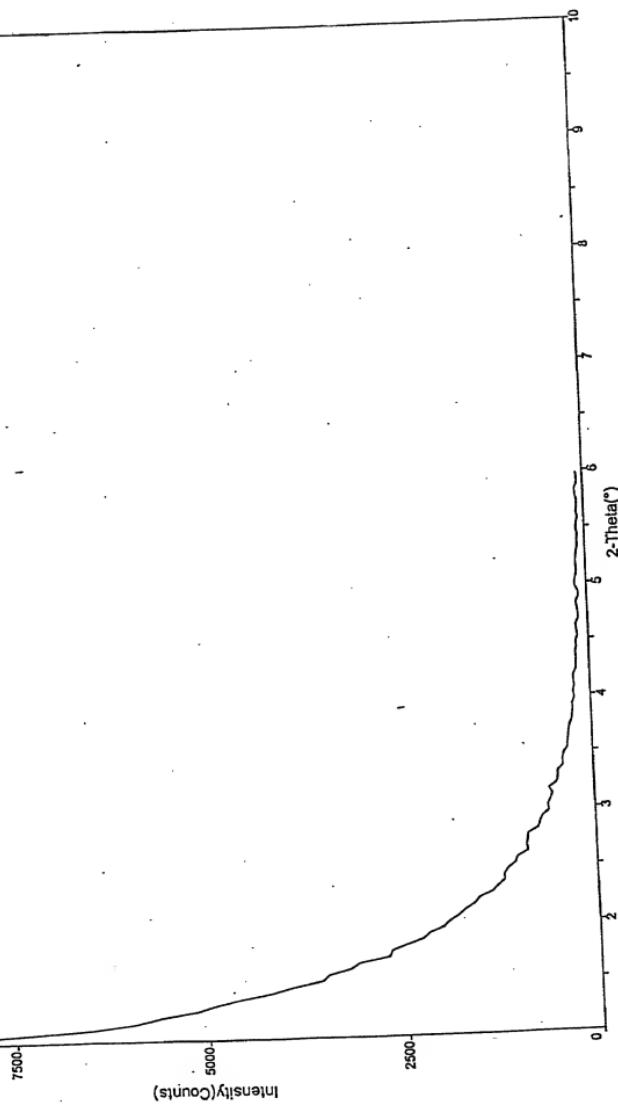


FIG. 9a

File ID: 5887E860

100  
9062Ba.dll CCC2C

d=77.3208

0.8

Intensity(Counts)

4.0

2.0

$10^3$

2-Theta( $^{\circ}$ )

Fig. 9b

10

8

6

4

2

0



150 [e90628d.dif] CC29A



10.0

Intensity(Counts)

卷之三

FIG. 102

103444-5887860

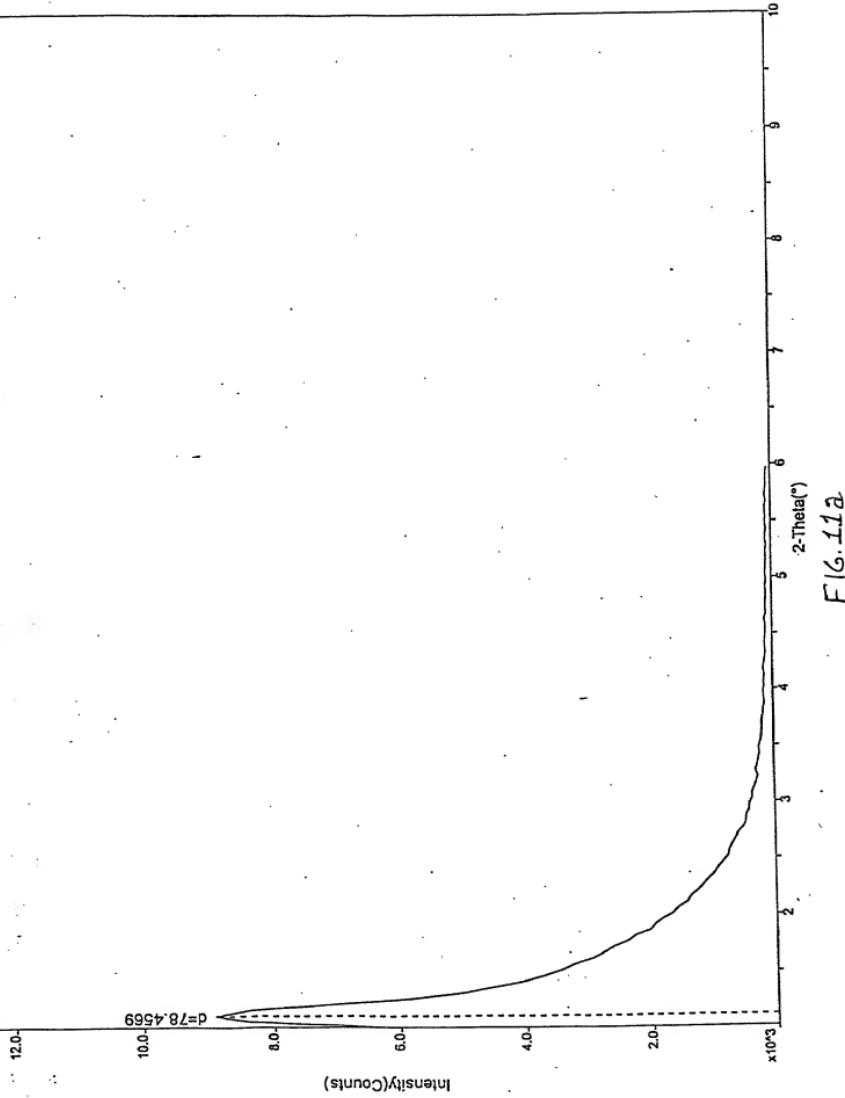
690628c.tif Cc29A

d=78.4073

Intensity (Counts)

2-Theta (°)

FIG. 10b



丁巳年夏月

10906249.din CC81-18

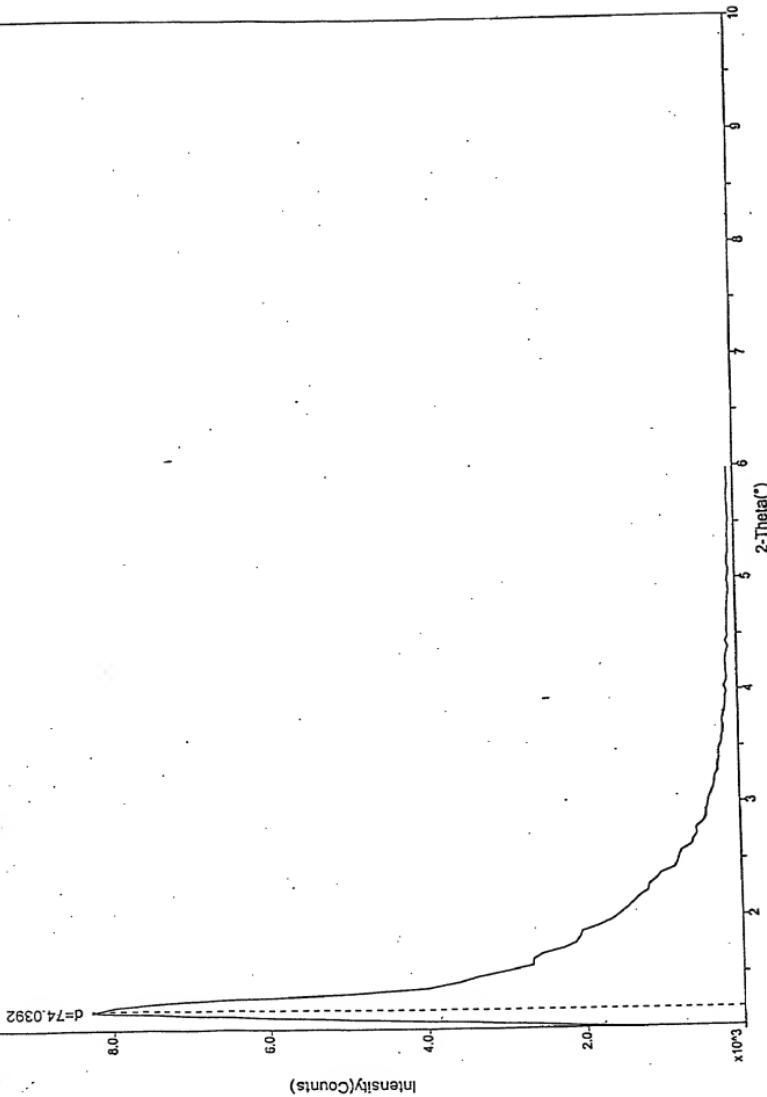
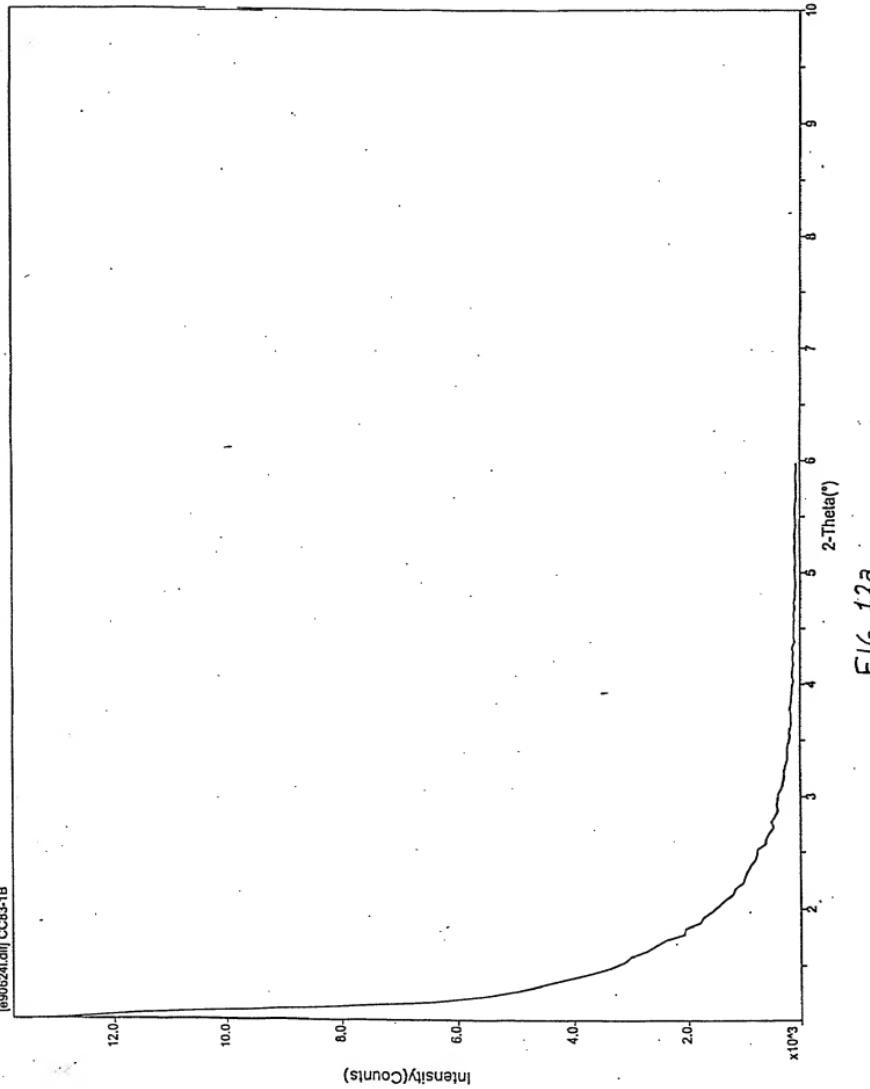


FIG. 11b

TESTING 5882EB60

[e906241.dll] CC03.1B



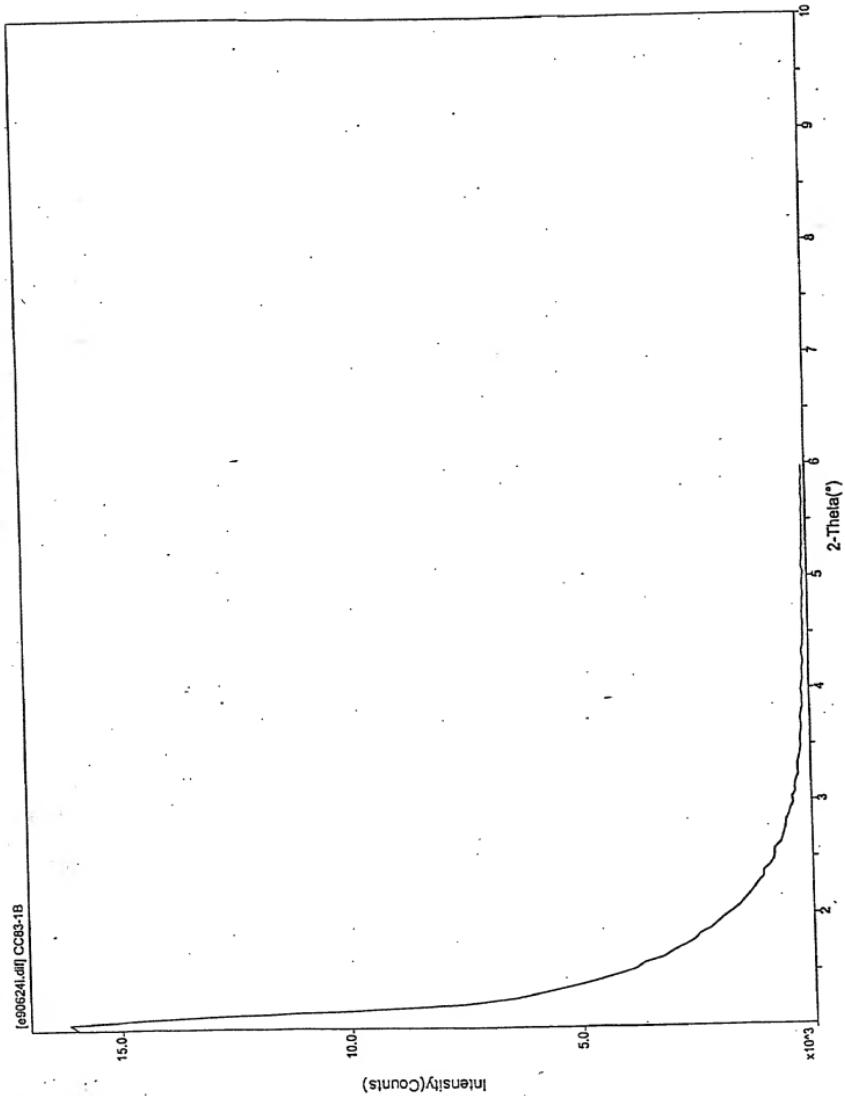


Fig. 17b

丁巳年夏月  
丁巳年夏月

[e90624].d11 CC83-1B

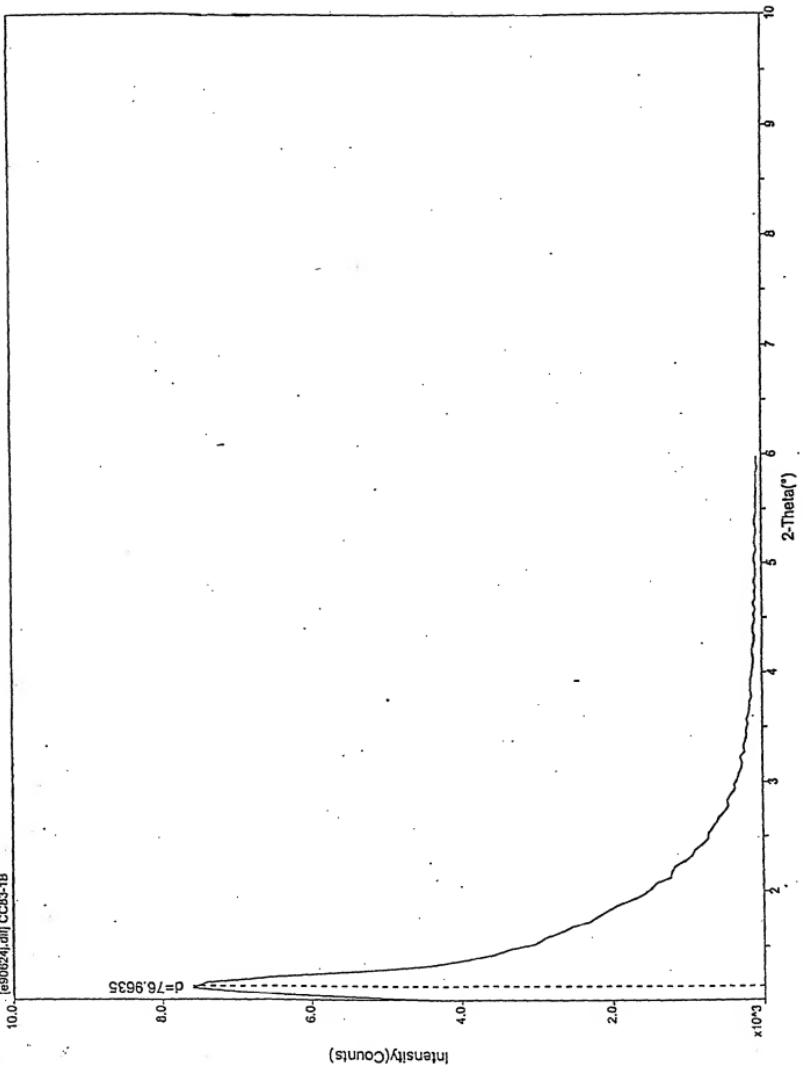


FIG. 12c

